#### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference				
	FOR FURTHER ACTION See Form PCT/IPEA/416			
9631WO/UR/FB				
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/SE2004/002002	23-12-2004	31-12-2003		
International Patent Classification (IPC) o	r national classification and IPC			
See Supplemental Box				
Applicant				
ABB AB et al				
1 This report is the investigation				
Authority under Article 35 and tra	<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>			
This REPORT consists of a total of a to	of 4 sheets, including this cover	er sheet.		
<ol> <li>This report is also accompanied by</li> </ol>	y ANNEXES, comprising:			
	and to the International Bureau) a total of			
and/or sneets	description, claims and/or drawings which have containing rectifications authorized by this Au e Instructions).	re been amended and are the basis of this report athority (see Rule 70.16 and Section 607 of the		
		rity considers contain an amendment that goes		
beyong the dis	sclosure in the international application as file	d, as indicated in item 4 of Box No. I and the		
Supplemental	Box.			
b (sent to the Internation	nal Bureau only) a total of (indicate type and	number of electronic carrier(s))		
	, containing a sequence listing	and/or tables related thereto, in electronic		
form only, as indicated Administrative Instruc	form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).			
4. This report contains indications rel	loting to the Callendar Italy			
	the report			
	ablishment of opinion with regard to novelty, inventive step and industrial applicability			
Box No. IV Lack of	unity of invention			
Box No. V Reasone applicab	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
Box No. VI Certain of	documents cited			
Box No. VII Certain o	defects in the international application	ects in the international application		
Box No. VIII Certain o	observations on the international application			
Date of submission of the demand				
out of salarmasion of the demand	Date of completion	of this report		
21 10 2005				
31-10-2005	<del></del>	24-03-2006		
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Authorized officer			
Box 5055	***			
S-102 42 STOCKHOLM	Magnus Wes	Magnus Westöö/MN		
Facsimile No. +46 8 667 72 88	Telephone No. +46	Telephone No. +46 8 782 25 00		

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/002002

Supplem	ental i	Box
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In case the space in any of the preceding boxes is not sufficient. Continuation of: Cover sheet

International patent classification (IPC)

**H02J 3/12** (2006.01)

Form PCT/IPEA/409 (Supplemental Box) (April 2005)

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/002002

Box	No. 1	Basis of the report	4
1.	With	regard to the language, this report is based on:	
		the international application in the language in which it was filed	١
		a translation of the international application into	1
		which is the language of a translation furnished for the purposes of:	۱
		international search (Rules 12.3(a) and 23.1(b))	١
		publication of the international application (Rule 12.4(a)) international preliminary examination (Rules 55.2(a) and/or 55.3(a))	
			١
2.	furnis	regard to the elements of the international application, this report is based on (replacement sheets which have been shed to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed are not annexed to this report):	,,,
	$\boxtimes$	the international application as originally filed/furnished	
		the description:	
		pages as originally filed/furnished	
		pages* received by this Authority on	
		pages* received by this Authority on	
		the claims:  as originally filed/furnished	ı
		pages	,
		pages* as amended (together with any statement) under Article is pages* received by this Authority on	
		pages* received by this Authority on	
	П	the drawings:	
		pages as originally filed/furnished	
		pages* received by this Authority on	
		pages* received by this Authority on	
		a sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.	
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this report and listed below had not b made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (R 70.2(c)).	een ule
		the description, pages	
Ì		the claims, Nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to the sequence listing (specify):	
*	lf it	tem 4 applies, some or all of those sheets may be marked "superseded."	

Form PCT/IPEA/409 (Box No. 1) (April 2005)

International application No.

PCT/SE2004/002002

Box N	No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial apcitations and explanations supporting such statement	plicabil	ity;
1. 5	Statement		: چنگ	\$ \$ \$

			Act.	YES
Novelty (N)	Claims Claims	<u>2-22, 24-27</u> 1 23		NO
Inventive step (IS)	Claims Claims	1-27		YES NO

Industrial applicability (IA)

Claims

Claims

NO

2. Citations and explanations (Rule 70.7)

Cited documents: D1: US 6476521 B1 D2: US 6496757 B1

The invention relates to a method and a device for selecting and dimensioning measures in case of instability in an electrical power system. In the method, according to claim 1, the actual voltage/phase angle is determined, the power unbalance is determined, appropriate power balancing measures are determined, the extent of every measure is dimensioned and the measures are accomplished. There also is a corresponding device defined in claim 23. Claims 1 and 23 are quite vague; it is not stated how, or even that, the power balancing measures are determined from the voltage/phase angle and power unbalance. Moreover, in the expression "voltage/phase angle" it is not clear whether the "/" stands for "or", for "and" or both. Anyhow, document D1 discloses a system for selecting and dimensioning measures for avoiding a collapse in an electric power system (see col. 7, lines 14-36). Voltages, phase angles and powers are determined (see for example col. 23, lines 6-20) and appropriate measures are taken. The invention defined in claims 1 and 23 is not clearly distinguishable from the art disclosed in document D1.

The remaining claims define trivial applications of well-known electrical measuring practice and emergency actions in power systems.

Document D2 describes the general state of the art.

To summarize, claims 1 and 23 lack novelty and the remaining claims lack an inventive step. The invention is industrially applicable.